

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

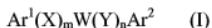
1. (Currently Amended) An agent for detecting rhinoviral infection in humans comprising a A-compound capable of binding to a picornavirus-rhinovirus (HRV) capsid, the compound comprising:

at least two capsid binding moieties, and

a non-polymeric backbone or core,

wherein the at least two capsid binding moieties are covalently attached to the non-polymeric backbone or core,

and wherein the at least two capsid binding moieties are the same or different and individually selected from formula (I):



where Ar^1 and Ar^2 are optionally substituted aryl groups, aromatic mono-, bi- or tri-cyclic rings or ring systems, which may be the same or different, said aromatic rings or ring systems having 3 to 15 carbon atoms, and in the case of heteroaromatic rings, containing one or more heteroatoms selected from N, S or O;

X and Y are independently selected from O, S, CO, C(O)O, CONR or NR, where R is hydrogen or C₁₋₆ alkyl;

W is a divalent spacer group selected from the group consisting of optionally substituted straight chain or branched alkylene groups of from 1 to 10 carbon atoms which may have one or more double or triple bonds; optionally substituted alkyleneoxy groups; optionally substituted aryl groups; and optionally substituted aliphatic rings

which may be saturated or unsaturated and which may include one or more heteroatoms selected from O, S and N; and
m and n are independently 0 or 1;
said compound being linked to a detectable label.

2-3. (Canceled)

4. (Currently Amended) The agent compound of claim 1 claim 2 wherein the at least two capsid binding moieties are capable of simultaneously binding within separate hydrophobic pockets on the same or different HRV capsids.

5. (Currently Amended) The agent compound of claim 1 wherein the compound has having a molecular weight of less than 10,000.

6. (Currently Amended) The agent compound of claim 4 wherein the non-polymeric backbone or core is selected from the group consisting of:

a straight chain, branched or cyclic C₁-C₇₀ alkyl optionally including one or more double or triple bonds and optionally including one or more heteroatoms selected from oxygen, sulfur and nitrogen;

oligomers of amino acids, acrylamide, N-substituted acrylamides, acrylic acid, alkeneoxy moieties, aminoalkanoic acids, and carbohydrates;

small to medium sized dendritic cores; and
cyclodextrins.

7. (Currently Amended) The agent compound of claim 1 wherein the non-polymeric backbone or core comprises two or more linker groups to which the two or more capsid binding moieties are attached, each linker group being capable of passing through the picornaviral pore and having a length sufficient to allow the attached capsid binding moiety to reach inside and bind within a hydrophobic pocket of the picornaviral rhinoviral capsid.

8. (Currently Amended) The agent compound of claim 7 wherein the two or more linker groups are the same or different and independently selected from the group consisting of alkyl, aryl, alkenyl, alkynyl, alkyleneoxy, amino acids, alkylamino, alkylcarbonyl, alkylcarboxy, alkoxy, alkylurea, alkyhydrazide and combinations thereof.

9. (Currently Amended) The agent compound of claim 7 wherein the non-polymeric backbone or core and/or the two or more of the linker groups comprises a functional group which imposes restrictions on available degrees of freedom.

10. (Currently Amended) The agent compound of claim 9 wherein the functional group is an alkenyl, aryl or amido group.

11. (Currently Amended) The agent compound of claim 4 wherein the two or more capsid binding moieties comprise between two and ten capsid binding moieties.

12. (Currently Amended) The agent compound of claim 11 comprising five capsid binding moieties located on the non-polymeric backbone or core such that they bind within the five hydrophobic pockets located about one of the fivefold icosahedral axes of the picornaviral rhinoviral capsid.

13. (Currently Amended) The agent compound of claim 1 wherein the two or more capsid binding moieties are covalently attached to the non-polymeric backbone or core such that the compound is in the form of a dimer with a center of symmetry.

14-15. (Canceled)

16. (Currently Amended) The agent compound of claim 145 wherein W the divalent spacer group is selected from the group consisting of $-(CH_2)_m-$ where m is 1 to 9; and $-(CH_2)_p-Z-(CH_2)_q-$ where p and q are independently 0 to 4, and Z is an optionally substituted

C₂-C₆ alkylene group containing one or more double or triple bonds or a five or six membered aromatic or aliphatic ring which may contain one to four heteroatoms selected from O, S and N.

17. (Currently Amended) The agent compound of claim 145 wherein the divalent spacer group is selected from the group consisting of -(CH₂)_m- where m is 2 to 7; and a group of the formula -(CH₂)_p-Z-(CH₂)_q- where p and q are independently 0 to 3, and Z is a five or six membered aromatic or aliphatic ring containing from 1 to 2 N atoms or a group of the formula -(CH=CH)_n- where n is 1 to 3.

18. (Canceled)

19. (Currently Amended) The agent compound of claim 4 wherein each of the two or more capsid binding moieties is covalently attached to the non-polymeric backbone or core at a position on the two or more capsid binding moieties located in the region at the end of the two or more capsid binding moieties which lies near the pore of the hydrophobic pocket (heel region) during binding.

20. (Currently Amended) The agent compound of claim 19 wherein each of the two or more capsid binding moieties contains a functional group at its heel region capable of forming a covalent bond with the non-polymeric backbone or core, wherein the functional group is located in the region at the end of the capsid binding moiety which lies near the pore of the hydrophobic pocket (heel region) during binding.

21. (Currently Amended) The agent compound of claim 20 wherein the functional group is selected from the group consisting of a hydroxy, amine, azide, aldehyde, carboxylic acid, amide, ester, hydrazide, oxime ether, imidazolide, hydroxamate, thioester, mercapto, halide, ketone, hydrazine, iscyanate and isothiocyanate.

22. (Currently Amended) The agent compound of claim 20 wherein the covalent bonds between the at least two capsid binding moieties and the non-polymeric backbone or core are formed between the functional group and a complementary functional group on a linker group of the non-polymeric backbone or core.

23-29. (Canceled)

30. (Currently Amended) A pharmaceutical composition comprising an agent a compound of claim 1, or a pharmaceutically acceptable salt thereof, together with a pharmaceutically acceptable carrier.

31-32. (Canceled)

33. (Currently Amended) A method for the diagnosis of human rhinoviral infections, comprising:

preparing a biological sample suspected of containing human rhinoviral virus,
incubating the sample with an agent of any one of claims 1, 4-13, 16, 17 and 19-22
~~claim 32 or a compound of claim 23 comprising a detectable label~~, the incubation occurring for a time and under conditions sufficient to form a human rhinovirus-agent ~~or human rhinovirus compound~~ complex, and

detecting the presence or absence of such human rhinovirus-agent ~~or human rhinovirus compound~~ complex.